



CHAPTER 3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

INTRODUCTION

The purpose of this chapter is to provide the information necessary to understand the potential environmental consequences or impacts due to construction and operation of the proposed action. The chapter is divided into sections that discuss resources that could be affected by the proposed Build Alternative. Each section includes a discussion of the Regulatory Setting, Studies, and Coordination; Affected Environment; Impacts; and Avoidance, Minimization, and/or Mitigation. The impact sections include a discussion of the effects of the No Build Alternative and the proposed Build Alternative (see **Chapter 2, Alternatives** for a detailed description of these alternatives).

The scope for the resources evaluation for this SES included field investigations, a review of available data, and agency and public input received during the scoping period. The environmental resources that were known to exist or potentially could exist in the study area are discussed in the following sections:

- 3.1: Land Use
- 3.2: Farmland
- 3.3: Social Impacts
- 3.4: Economics
- 3.5: Pedestrian and Bicyclists Considerations
- 3.6: Air Quality
- 3.7: Noise
- 3.8: Water Resources
- 3.9: Biological Resources
- 3.10: Cultural Resources
- 3.11: Hazardous Materials
- 3.12: Visual Quality

As part of the scoping and environmental analysis, additional environmental resources were considered. However, because it was determined the proposed Build Alternative would have no impact on them, there is no further discussion regarding these two resources in the report:

- Wild and Scenic Rivers
- Energy

PERMITS AND APPROVALS

The proposed action is subject to the permits and approvals listed in **Table 3-1**.

Table 3-1: Required Permits and Approvals

Agency	Permit/Approval	Status
Utah Department of Environmental Quality (UDEQ)	Issuance of Utah Pollutant Discharge Elimination System (UPDES) permit.	Submission of Notice of Intent (NOI) to comply with the conditions of the Utah Department of Transportation's (UDOT) UPDES permit anticipated prior to the start of construction. The UPDES permit fulfills the Clean Water Act Section 402 requirements.
UDEQ	Issuance of General Construction Storm Water Permit.	Submission of NOI to comply with conditions of the general permit prior to start of construction.
Utah State Historic Preservation Office (SHPO)	Concurrence with the Determination of Eligibility and Finding of Effect (DOE/FOE).	UDOT submitted a DOE/FOE on 12/7/09, and SHPO concurred with the eligibility and effects determinations on 12/14/09. There will be an adverse effect on one archaeological site and on two historic properties. To comply with Section 106 of the National Historic Preservation Act, and a Memorandum of Agreement (MOA) will be prepared to outline responsibilities and measures to mitigate or reduce the adverse effect. The MOA will be included as an appendix to the final SES.
Utah Department of Air Quality (UDAQ)	Approval Order operating permit for stationary construction equipment.	Submission of NOI to comply with conditions of the air quality permit prior to start of construction.

Source: Jacobs 2009.